

Increased Life. Span (ILS)

Survivors (days)

Dosage •

Number of Mice

Group

, ¹ ,

17.2%

29%

1(31)

0.002 ml fetuin

2

0.02 ml fetuin

0.2 ml fetuin

5 5

0.5 ml saline

8(58)

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Type of Fetuin	Amount Required to Reach LDso
Fetuin+ Zn	130 MM
Supercharged Zinc Fetuin	14.3 µM

FIG.2

Type of Fetuin	Amount Required to Reach LD _{so}
Fetuin+ Zn	M _D / 09
Supercharged Zinc Fetuin	19.6 _{WM}

FIG.3



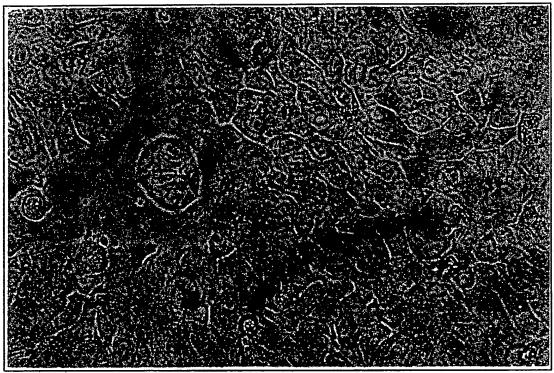


Fig. 35

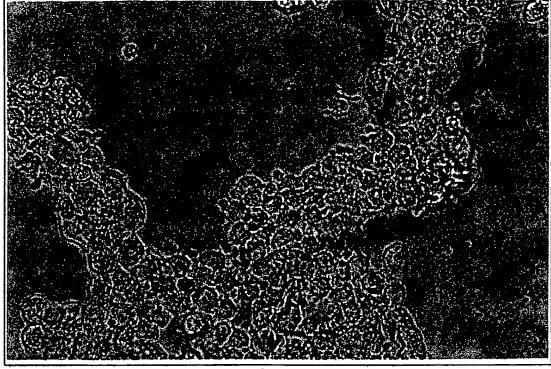


Fig. 36

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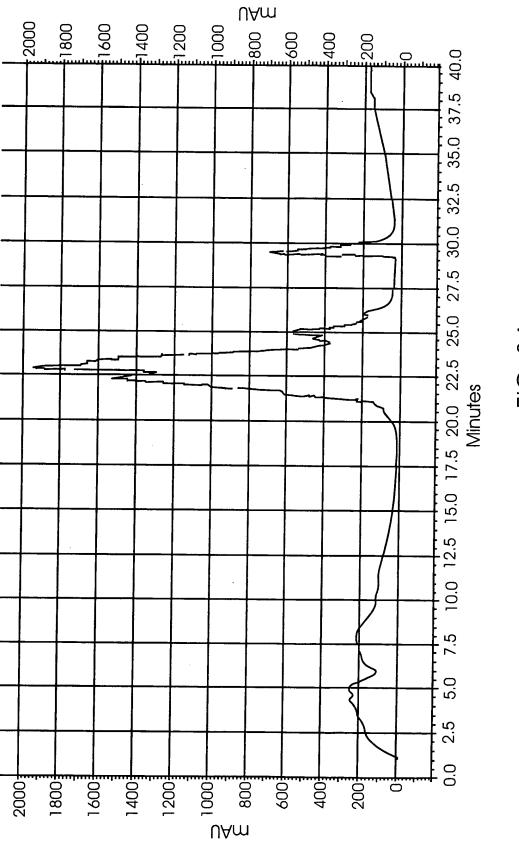


FIG. 34

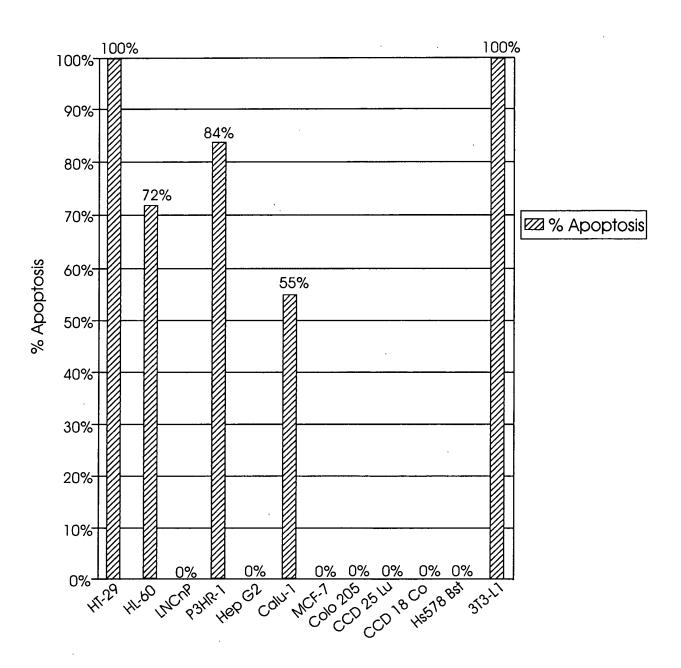
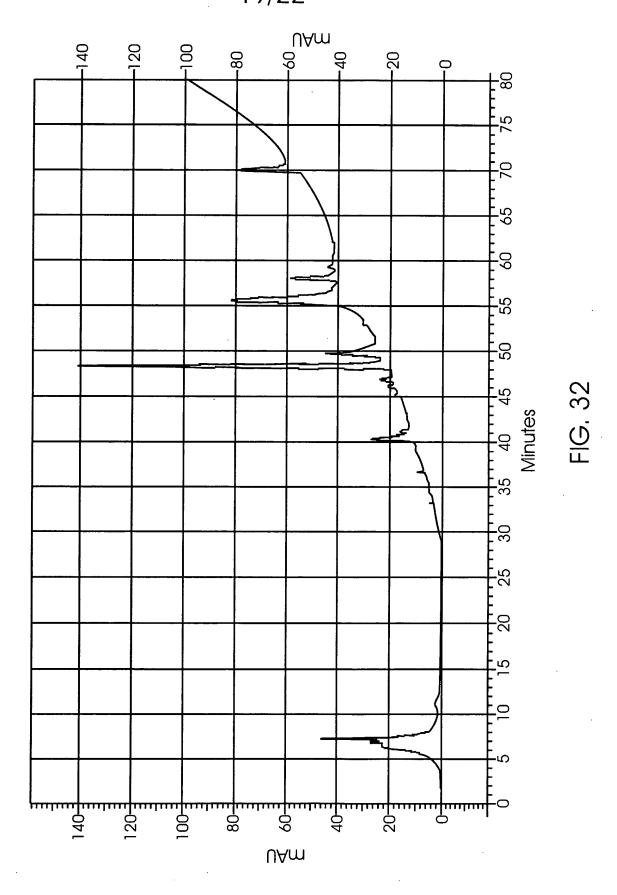


Fig. 33





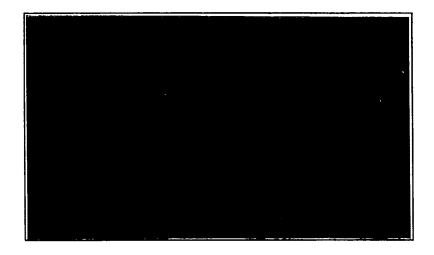


Fig. 30

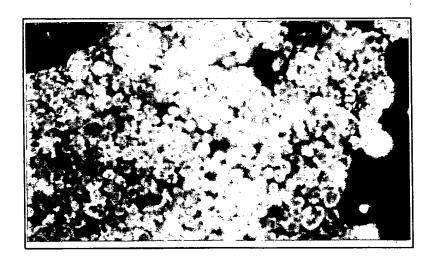


Fig. 31

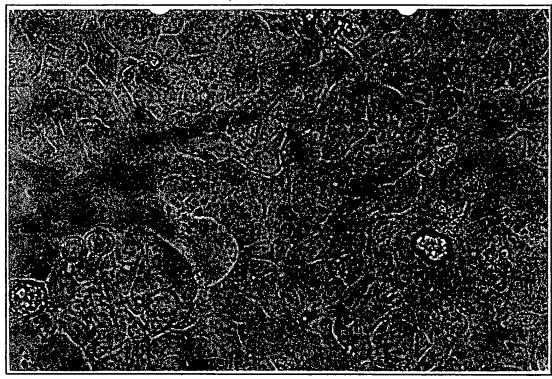


Fig. 28

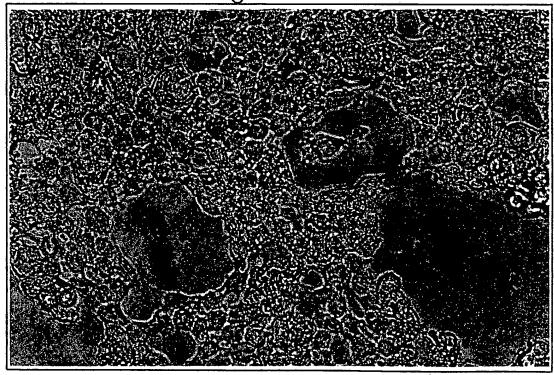
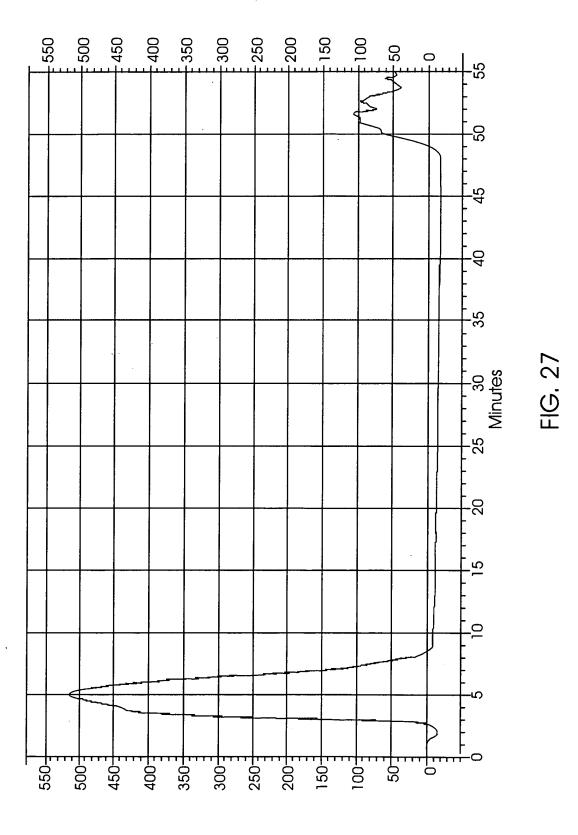
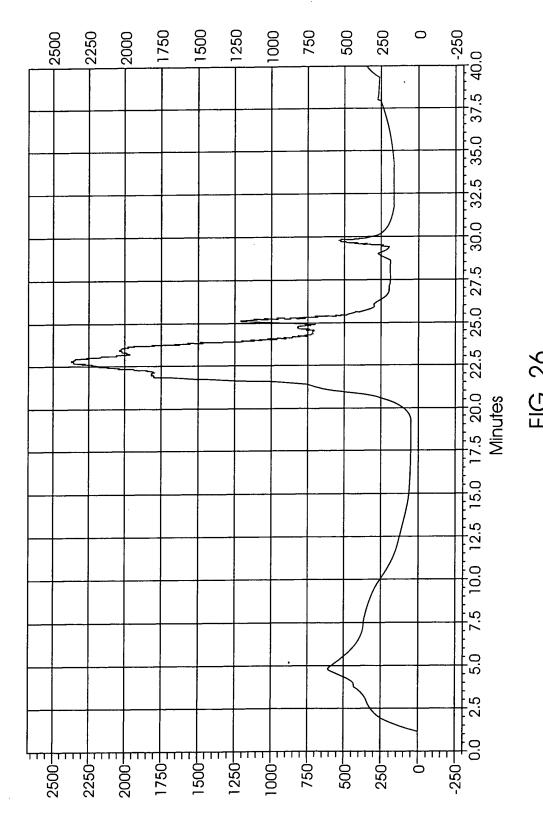


Fig. 29

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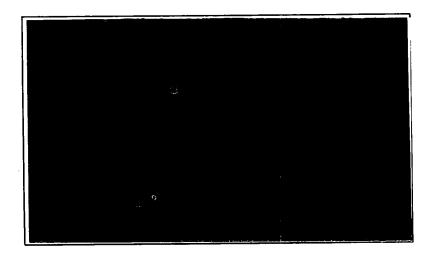


Fig. 24

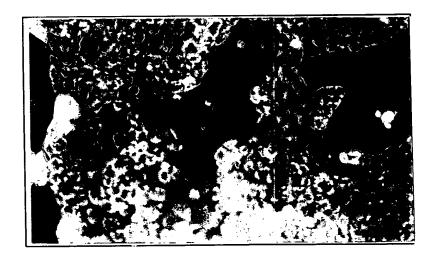


Fig. 25

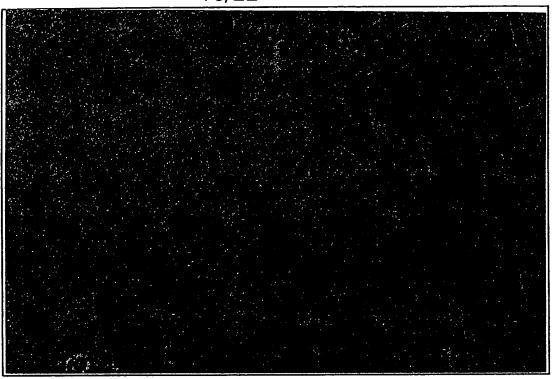


Fig. 22

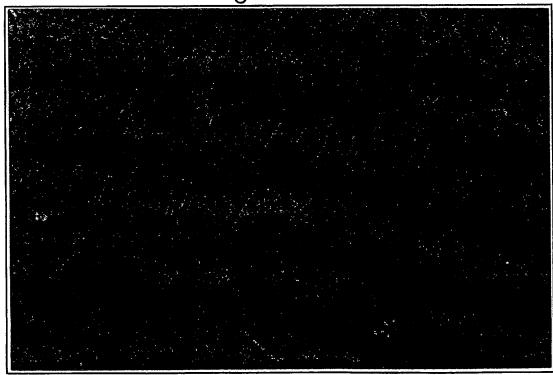


Fig. 23

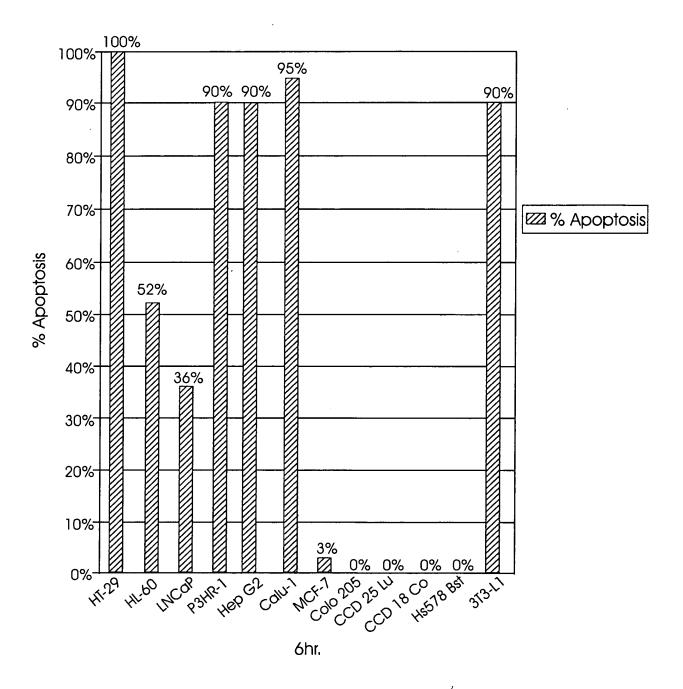


Fig. 21

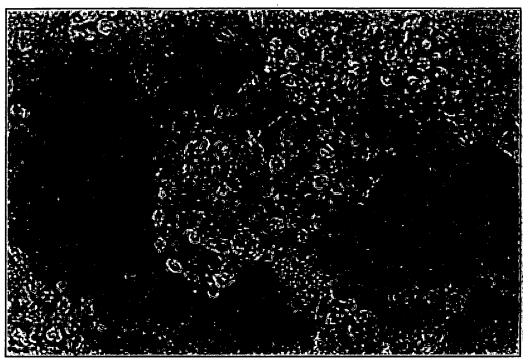


Fig. 19



Fig. 20

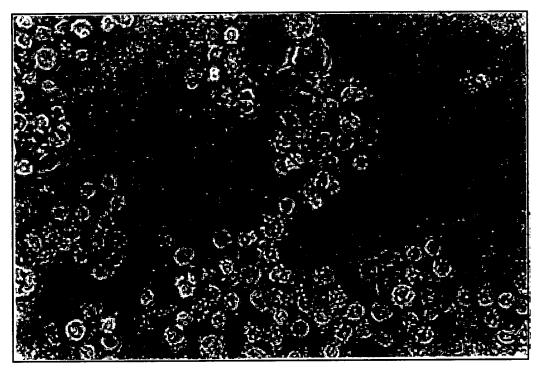


Fig. 17

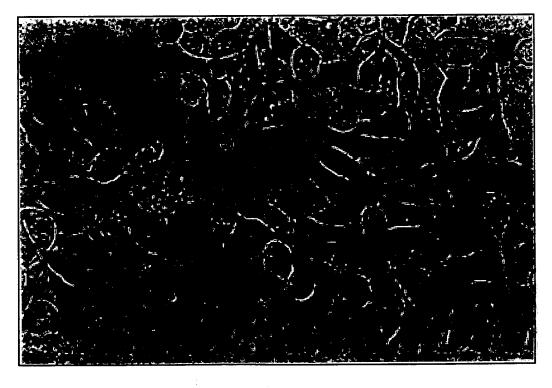


Fig. 18

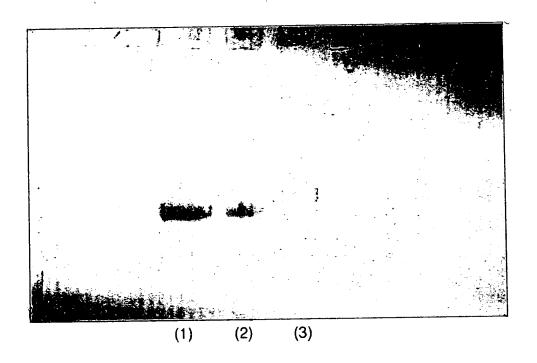
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Fig. 15



Fig. 16



- (1)Alpha 1 acid-glycoprotein (Sigma)
- (2) Sample
- (3) Alpha 2 HS-glycoprotein (Sigma)

Fig. 14

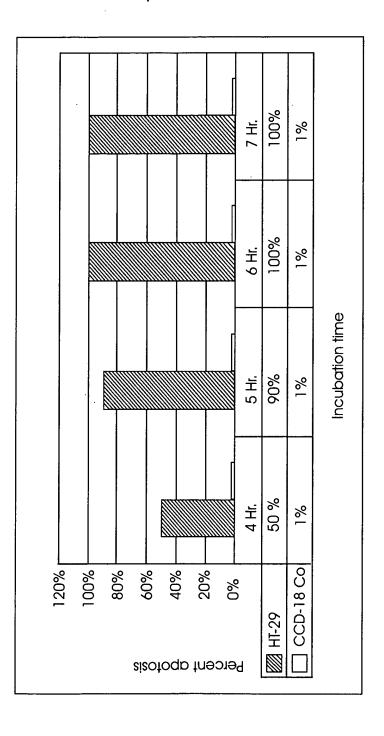


FIG. 12

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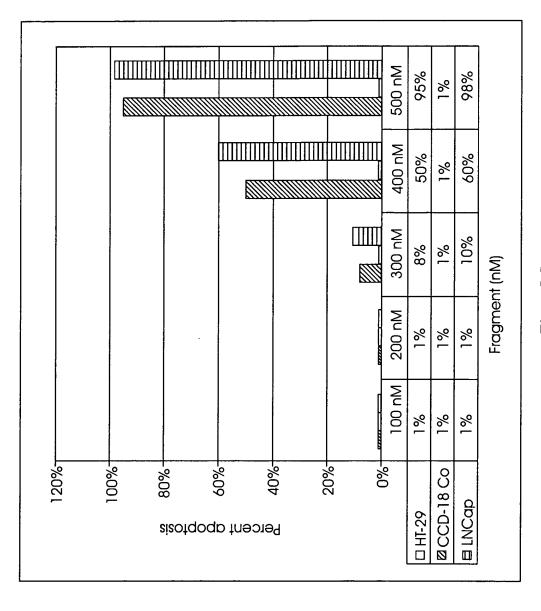


Fig. 11



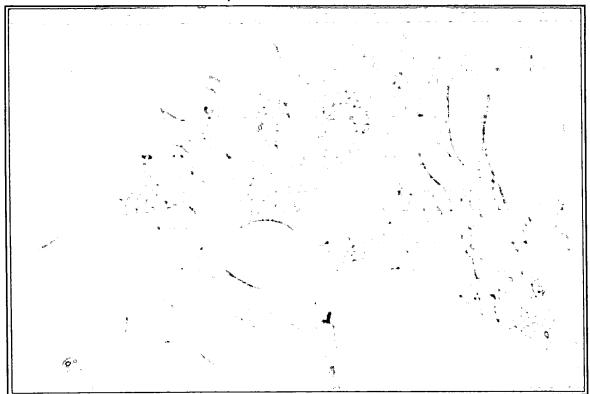


Fig. 9

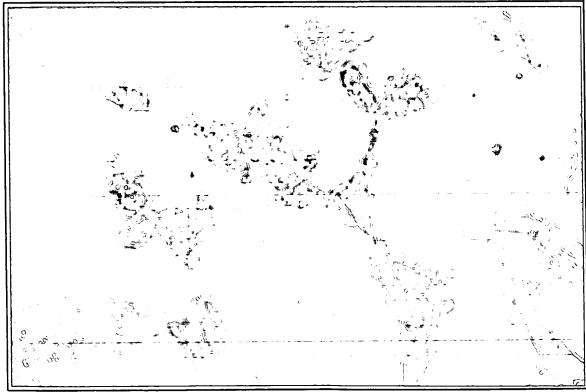


Fig. 10

<u>Experiment</u>	<u>Sample</u>	Apoptosis (%)
1	Filtrate (10 μ l) Filtrate (10 μ l) + proteinase K	92% 50%
2	Filtrate (5 μ l) Filtrate (5 μ l) + proteinase K	35% 0%
3	Filtrate (10 μ l) Filtrate (10 μ l) + proteinase K	75% 0%

FIG. 8

<u>Fetuin</u>	LD ₅₀
Zinc Charged Fetuin (full length)	$\mathrm{LD_{50}} = 3\text{-}10~\mu\mathrm{M}$
Fetuin Fragment (amino acid no. 300-309)	$LD_{so}=0.3\text{-}0.4~\mu\mathrm{M}$
Fetuin Fragment (amino acid no. 300-307)	LD ₅₀ >> 1 mM
Fetuin Fragment (amino acid no. 310-317)	LD ₅₀ >> 1 mM

FIG. 13



Fig. 6



Fig. 7

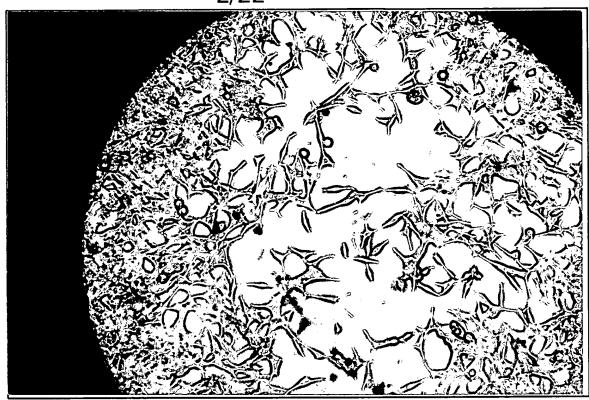


Fig. 4

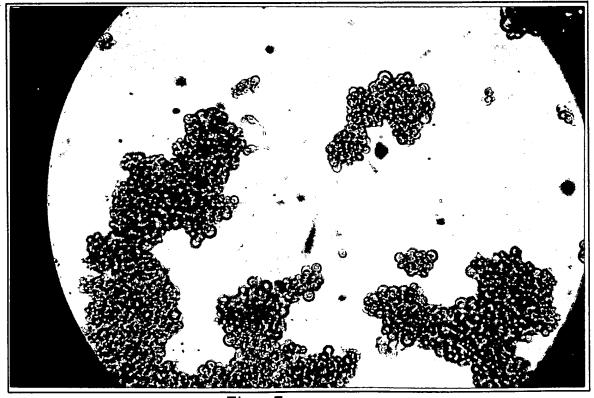


Fig. 5

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